

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1. (Currently Amended) A method for generating user interface output on an output device attached to a remote computer, wherein the remote computer communicates over a network to at least one server, comprising:

receiving an object including user interface components and data from one server;

generating user interface output from the user interface components and data in the object, wherein the user interface output generates a web browser interface;

receiving [[a]] standard application program interfaces (API) that are a member of a set of standard APIs in a first format from at least one server over the network;

converting the standard APIs in the first format to a user interface API in a second format; [[and]]

executing the user interface [[API]] APIs in the second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output is controlled by the at least one remote server through the standard APIs sent by the at least one server over the network;

receiving user input commands at the remote computer;

generating user interface APIs in the second format to implement the user input commands; and

executing the generated user interface APIs to manipulate the object and generate further user interface output from the components and data in the object

2. (Original) The method of claim 1, wherein the data included in the object includes at least one of text, images, and graphics.

3. (Canceled)

4. (Canceled)

5. (Original) The method of claim 1, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

6. (Currently Amended) A method for controlling from a server user interface output on an output device attached to a remote computer, wherein the server and remote computer communicate over a network, comprising:

transmitting from the server an object to the remote computer including user interface components and data, wherein the remote computer generates user interface output from the user interface components and data in the object, wherein the user interface output generates a web browser interface; and

transmitting from the server to the remote computer standard application program interfaces (API) that are a member of a set of standard APIs in a first format, wherein the remote computer converts the standard APIs in the first format to user interface APIs in a second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output at the remote computer is controlled by the server through the standard APIs sent by the server over the network;

generating a user interface at the server from a copy of the object transmitted to the remote computer;

receiving input to control the user interface at the server;

generating standard APIs in the first format to control the user interface according to the received input; and

transmitting the generated standard APIs in the first format to the remote computer to control the user interface output generated at the remote computer.

7. (Canceled)

8. (Currently Amended) The method of claim [[7]] 6, wherein the object includes images of a product, wherein the received input at the server is to modify the presentation of the images of the product, and wherein the generated and transmitted standard APIs modify the presentation of the images of the product displayed in the generated user interface output at the remote computer.

9. (Original) The method of claim 6, further comprising:
transmitting the object to additional remote computers;
transmitting the standard APIs in the first format to the additional remote computers that received the object to manipulate the objects on all the remote computers and control the generation of user interface output on the remote computers.

10. (Original) The method of claim 9, further comprising:
receiving, at the server, input from one of the remote computers to manipulate the object to modify the user interface output;
generating, with the server, standard APIs to implement the manipulations to the object indicated in the received input; and
transmitting the generated standard APIs to the remote computers to implement the manipulations of the object on the remote computers.

11. (Original) The method of claim 9, wherein the object includes components and data of an interactive lesson, wherein the lesson is presented by transmitting standard APIs to the remote computers to generate user interface output defining the lesson from the components and data in the object at each remote computer.

12. (Original) The method of claim 6, wherein the data included in the object includes at least one of text, images, and graphics.

13. (Canceled)

14. (Original) The method of claim 6, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

15. (Currently Amended) A system for generating user interface output, comprising:
a remote computer;
an output device attached to the remote computer;

a network, wherein the remote computer communicates over the network to at least one server;

program logic executed in the remote computer, wherein the program logic includes code capable of causing the remote computer to perform:

- (i) receiving an object including user interface components and data from one server;
- (ii) generating user interface output from the user interface components and data in the object, wherein the user interface output generates a web browser interface;
- (iii) receiving [[a]] standard application program interfaces (API) that are a member of a set of standard APIs in a first format from at least one server over the network;
- (iv) converting the standard APIs in the first format to a user interface API in a second format; [[and]]
 - (v) executing the user interface API in the second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output is controlled by the at least one remote server through the standard APIs sent by the at least one server over the network;
 - (vi) receiving user input commands at the remote computer;
 - (vii) generating user interface APIs in the second format to implement the user input commands; and
 - (viii) executing the generated user interface APIs to manipulate the object and generate further user interface output from the components and data in the object.

16. (Original) The system of claim 15, wherein the data included in the object includes at least one of text, images, and graphics.

17. (Canceled)

18. (Canceled)

19. (Original) The system of claim 15, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

20. (Currently Amended) A system for controlling user interface output on an output device attached to a remote computer, comprising:

a server;

a network, wherein the server communicates with the remote computer over the network; program logic executed in the server, wherein the program logic includes code capable of causing the server to perform:

(i) transmitting an object to the remote computer including user interface components and data, wherein the remote computer generates user interface output from the user interface components and data in the object, and wherein the user interface output generates a web browser interface; and

(ii) transmitting to the remote computer standard application program interfaces (API) that are a member of a set of standard APIs in a first format, wherein the remote computer converts the standard APIs in the first format to user interface APIs in a second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output at the remote computer is controlled by the server through the standard APIs sent by the server over the network;

(iii) generating a user interface at the server from a copy of the object transmitted to the remote computer;

(iv) receiving input to control the user interface at the server;

(v) generating standard APIs in the first format to control the user interface according to the received input; and

(vi) transmitting the generated standard APIs in the first format to the remote computer to control the user interface output generated at the remote computer.

21. (Canceled)

22. (Currently Amended) The system of claim [[21]] 20, wherein the object includes images of a product, wherein the received input at the server is to modify the presentation of the images of the product, and wherein the generated and transmitted standard APIs modify the presentation of the images of the product displayed in the generated user interface output at the remote computer.

23. (Currently Amended) The system of claim 20, wherein the program logic code is further capable of causing the server to perform:

transmitting the object to additional remote computers; and

transmitting the standard APIs in the first format to the additional remote computers that received the object to manipulate the objects on all the remote computers and control the generation of user interface output on the remote computers.

24. (Original) The system of claim 23, wherein the program logic code is further capable of causing the server to perform:

receiving input from one of the remote computers to manipulate the object to modify the user interface output;

generating standard APIs to implement the manipulations to the object indicated in the received input; and

transmitting the generated standard APIs to the remote computers to implement the manipulations of the object on the remote computers.

25. (Original) The system of claim 23, wherein the object includes components and data of an interactive lesson, wherein the lesson is presented by transmitting standard APIs to the remote computers to generate user interface output defining the lesson from the components and data in the object at each remote computer.

26. (Original) The system of claim 20, wherein the data included in the object includes at least one of text, images, and graphics.

27. (Canceled)

28. (Original) The system of claim 20, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

29. (Currently Amended) A program for use in generating user interface output on an output device attached coupled to a remote computer, wherein the remote computer communicates over a network to at least one server, and wherein the program is embedded in a computer readable [[medium]] storage device and includes code capable of causing the remote computer to perform:

receiving an object including user interface components and data from one server;

generating user interface output from the user interface components and data in the object, wherein the user interface output generates a web browser interface;

receiving [[a]] standard application program interfaces (API) that are a member of a set of standard APIs in a first format from at least one server over the network;

converting the standard APIs in the first format to a user interface API in a second format; [[and]]

executing the user interface [[API]] APIs in the second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output is controlled by the at least one remote server through the standard APIs sent by the at least one server over the network;

receiving user input commands at the remote computer;

generating user interface APIs in the second format to implement the user input commands; and

executing the generated user interface APIs to manipulate the object and generate further user interface output from the components and data in the object.

30. (Original) The program of claim 29, wherein the data included in the object includes at least one of text, images, and graphics.

31. (Canceled)

32. (Canceled)

33. (Original) The program of claim 29, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

34. (Currently Amended) A program for controlling a server to generate user interface output on an output device attached to a remote computer, wherein the server and remote computer communicate over a network, and wherein the program is embedded in a computer readable [[medium]] storage device and includes code capable of causing the server to perform:

transmitting an object to the remote computer including user interface components and data, wherein the remote computer generates user interface output from the user interface components and data in the object, and wherein the user interface output generates a web browser interface; and

transmitting to the remote computer standard application program interfaces (API) that are a member of a set of standard APIs in a first format, wherein the remote computer converts the standard APIs in the first format to user interface APIs in a second format to manipulate the object and generate further user interface output from the components and data in the object, wherein the user interface output at the remote computer is controlled by the server through the standard APIs sent by the server over the network;

generating a user interface at the server from a copy of the object transmitted to the remote computer;

receiving input to control the user interface at the server;

generating standard APIs in the first format to control the user interface according to the received input; and

transmitting the generated standard APIs in the first format to the remote computer to control the user interface output generated at the remote computer.

35. (Canceled)

36. (Currently Amended) The program of claim [[35]] 34, wherein the object includes images of a product, wherein the received input at the server is to modify the presentation of the images of the product, and wherein the generated and transmitted standard APIs modify the

presentation of the images of the product displayed in the generated user interface output at the remote computer.

37. (Currently Amended) The program of claim 34, wherein the program code is further capable of causing the server to perform:

transmitting the object to additional remote computers; and

transmitting the standard APIs in the first format to the additional remote computers that received the object to manipulate the objects on all the remote computers and control the generation of user interface output on the remote computers.

38. (Original) The program of claim 37, wherein the program code is further capable of causing the server to perform:

receiving input from one of the remote computers to manipulate the object to modify the user interface output;

generating standard APIs to implement the manipulations to the object indicated in the received input; and

transmitting the generated standard APIs to the remote computers to implement the manipulations of the object on the remote computers.

39. (Original) The program of claim 37, wherein the object includes components and data of an interactive lesson, wherein the lesson is presented by transmitting standard APIs to the remote computers to generate user interface output defining the lesson from the components and data in the object at each remote computer.

40. (Original) The program of claim 34, wherein the data included in the object includes at least one of text, images, and graphics.

41. (Canceled)

42. (Original) The program of claim 34, wherein the object comprises a document object model (DOM) object and the standard APIs in the first format comprise W3C APIs.

The attorney of record invites the Examiner to contact him at (310) 553-7977 if the Examiner believes such contact would advance the prosecution of the case.

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